

EARTHSAFE

Geological and Environmental Consulting

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**Confirmation Sampling and Request for Case Closure
at Carlson Garage
5131 Lincoln Avenue, Cypress, CA, 90630**

Prepared for:

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**County of Orange Health Care Agency
Division of Environmental Health
Certified Unified Program Agency
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Ms. Arghavan Rashidi-Fard

February 11, 2006

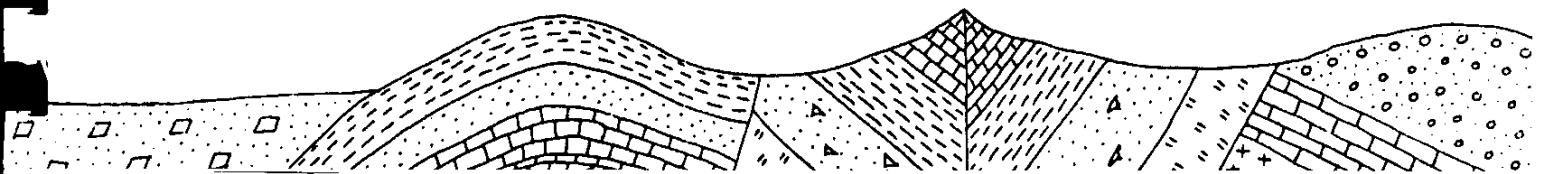


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Introduction

Active remediation has been terminated at Carlson Garage, 3311 Lincoln Avenue, Cypress, CA 90640. Confirmation borings have been sample and a round of groundwater monitoring was completed. The results of that activity are presented in this report.

Confirmation Soil Sampling

On May 23, 2005, three soil borings (C-2, C-3 and C-4) were advanced, using direct push technology, through the area known to be contaminated prior to the vapor extraction project, see Figure 1 for the location of the borings.

The soil boring adjacent to the former boring B-16 was moved slightly south east because the proposed location would have penetrated the former tank excavation backfill, which would not have been representative of the actual soil conditions.

Soil samples were collected at depths of 6, 8, 10, 12 and 14 feet below the ground surface. Each sample was collected in a brass tube, capped with teflon lined plastic lids, labeled, logged for lithology and on a chain of custody document, placed in a cooler with ice and transported to a State of California certified laboratory. The remaining portion of the sample was tested for head space vapors using an OVA meter, see Appendix A, Boring Logs.

A groundwater sample was collected from each boring as soon as sufficient water entered the boring. For boring C-2 the sample was collected when the boring was completed. For borings C-3 and C-4 the water was collected after the 8 foot deep soil sample was collected.

Sampling equipment was washed in a solution of TSP and rinsed twice using a three bucked system.

Each boring was backfilled immediately using bentonite granules.

Well Head Survey

On September 13, 2005 a well head survey was performed by WM Holdings Inc., a Licensed Land Surveyor (No. 5948). The well positions and elevations have been uploaded to Geotracker, see Appendix B for a copy of the survey.

As a result of the survey the true elevation of the wells is 1.8 feet higher than the temporary benchmark. Well MW-4 was cut to install the vapor extraction hardware, so it cannot be compared to it previous elevation.

Groundwater Gradient

The wells were gauged using a tape and paste method, see Appendix C for well data and Appendix D for the well gauging log. No free phase gasoline was measured in any well.

The collected data was used to calculate a groundwater gradient of 0.0177, directed due south and to draw the water table contours, see Figure 2. This is similar to the previous 7 years of observations, see Table 1.

Table 1 Historic Gradient Measurements		
Date	Magnitude	Azimuth
September 16, 2005	0.0177	180°
January 31, 2003	0.0163	182°
April 26, 2002	0.0120	186°
January 17, 2002	0.0121	187°
February 17, 2001	0.0098	190°
July 13, 2000	0.0120	189°
February 29, 2000	0.0127	189°
November 10, 1999	0.0131	188°
May 25, 1999	0.0164	183°
February 18, 1999	0.0162	182°
May 21, 1998	0.0256	172°

Analytical Testing

All samples analyzed for this report were delivered, under chain of custody protocol to Southland Technical Services of Montebello, CA, a State of California certified laboratory. Samples were analyzed for TPH as gasoline using LUFT Manual methodology and benzene, toluene, xylene, ethylbenzene and fuel oxygenates,

M.T.B.E., ETBE, DIPE, TAME and T-butyl alcohol, using EPA method 8260b. The complete laboratory report with chain of custody document is in Appendix E.

Discussion

The remediation project was designed to dewater the area of the gasoline plume and apply vapor extraction to the dewatered area. The goal was to remove and destroy gasoline from the soil thereby reducing the impact to public water supplies and the environment.

Through January 29, 2005, 448,590 gallons of water was treated and disposed of under the NPDES permit. Much of this water was removed from Wells MW-1 (the up gradient well) and MW-2 (the down gradient well). This pumping did not cause the plume to migrate toward either well; weekly testing of each influent source, as required by the NPDES permit, throughout the project indicated no increase in gasoline at either well, see Appendix C.

Site stratigraphy consists of thin beds of silt, sandy silt, silty sand and fine sand with intercalated contacts. These surficial soils were deposited in Holocene time by sheet floods crossing the Orange County Coastal Plain. Although these deposits are not old enough to have been significantly tilted or otherwise deformed by the tectonic activity associated with Southern California, the fine sand beds cannot be correlated between borings that are less than 12 feet apart. A sand bed was observed at a depth of 10 feet in boring C-2 but no similar bed was observed in boring C-3. At boring C-4 a sand bed was observed at a depth of 12 feet but no similar bed was observed in borings C-2 or C-3.

The dewatering produced water from the permeable sand beds while not completely draining the muddier lithologies within the cone of depression and the gasoline plume. As a result the vapor extraction unit had difficulty removing the volatile compounds adsorbed to the fine grained soils. Further use of this technology is unlikely to be productive.

The grab water samples improved between the hand auger sampling done in boring C-1 on June 9, 2004 and the three direct push borings done on May 23, 2005. TPH declined from 48,800 µg/l in boring C-1 to 26,900 µg/l, 5,230 µg/l, and 16,100 µg/l in borings C-2 through C-4 respectively. BTEX levels were reduced from 6,000± µg/l for each constituent in boring C-1 to between 6 and 685 µg/l for each constituent in borings C-2 through C-4 respectively.

It is noteworthy that each new boring within the plume produces water with high TPH and BTEX concentrations such as Wells MW-2 and MW-4. After removing several rounds of water during purging, the gasoline concentrations decline significantly. The

agitation of the soil caused by the drilling frees the adsorbed gasoline to dissolved in the water. Once the liberated gasoline is removed from the well, more gasoline is not released from the fine grained soil, even though more than 100,000 gallons of water are pumped from the well (MW-2 and MW-4).

It was only recently discovered by EarthSafe that a large volume (approximately 200 tons) of soil was removed from the site during the tank closure project. This helps to explain why the patch in the asphalt is so much larger than normal for a 10,000 gallon tank. This excavation resulted in settlement of the building's foundation and cracks to its walls.

Conclusions

Based upon the findings in this report we conclude the following:

- The adsorbed gasoline concentrations measured in the confirmation soil borings higher than desired, measuring as high as 7,220 mg/kg at a depth of 8 feet below the ground surface. The BTEX concentrations do not exceed 21.1 mg/kg for benzene and 121 mg/kg for total xylene at the location of Boring C-4 (the most distant from the extraction well, MW-4). The highest benzene concentration in the other two confirmation borings is 5.41 mg/kg at the location of boring C-2.
- Concentrations of adsorbed gasoline and its constituents have been reduced by the remediation project to the point that the permanent wells at the site show very little dissolved contaminants.
- Residual gasoline and BTEX is confined within a 400± square foot area in the down gradient area of the former gasoline tank, Figure 1.
- Based upon the vapor readings at the conclusion of the remediation project, it is unlikely that there will be a risk of benzene accumulating in any future structure which may be built at the site. Current building set back regulations make construction on this portion of the lot very unlikely.
- The source of the leaking gasoline was stopped with the removal of the tank.
- The export of the soil during the tank closure removed a large percentage of source material.
- Pump and treat along with vapor extraction has removed all of the fuel which can readily be extracted. The remaining fuel is entrapped in the fine grained soil. Excavation of this soil is not feasible due to the risk of damage to the subject

aerobically (not likely within the plume due to muddy soil conditions but highly likely to be the cause of the lack of migration) or anaerobically (very likely to be occurring within the plume). Natural attenuation is likely to mitigate this plume within a reasonable time frame, several decades.

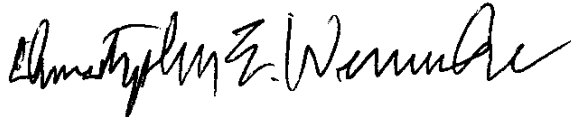
- Public water supplies, other beneficial uses of the affected aquifer, human health and the environment are not impacted by this plume.

Report Limitations

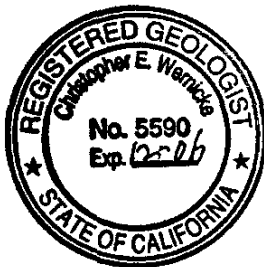
The results presented in this report represent conditions at the specific time and location at which samples were collected. It does not fully characterize the site for contamination.

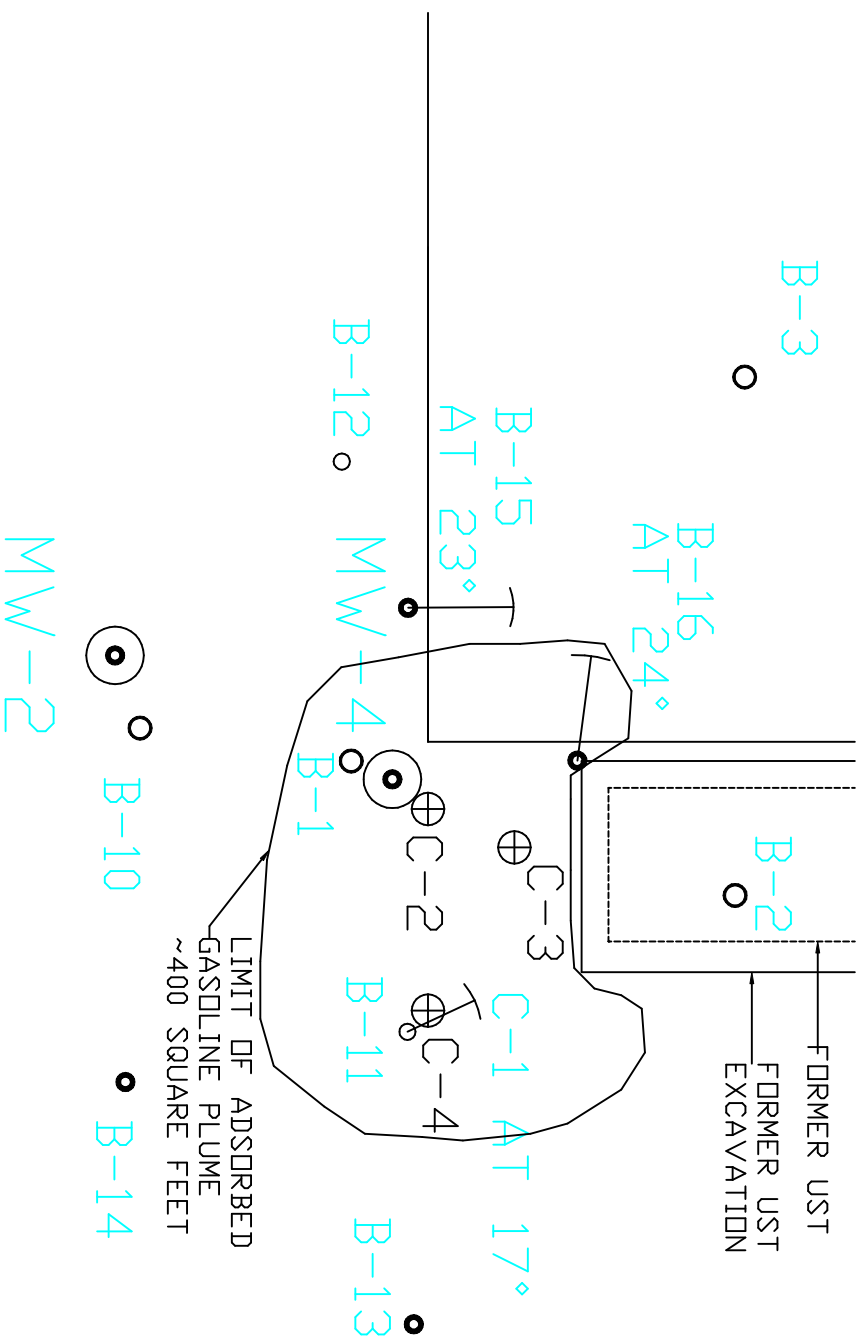
The work described herein has been performed by EarthSafe and its licensed or certified subcontractors. The work has been performed in accordance with the local building codes, standards and practices currently accepted in the Environmental Consulting and Construction Industry. No other warranty is either expressed or implied.

If you have any questions regarding this investigation, please do not hesitate to contact this office.



Christopher E. Wernicke
Registered Geologist No. 5590





EXPLANATION

- ⊕ CONFIRMATION SOIL BORING
- ⊕ B-16 SOIL BORING SHOWING THE DIRECTION AND BOTTOM WHERE SLANTED
- ⊙ MW-4 WELL LOCATION

LINCOLN AVENUE

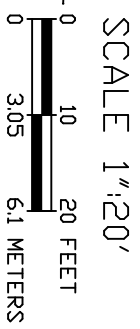
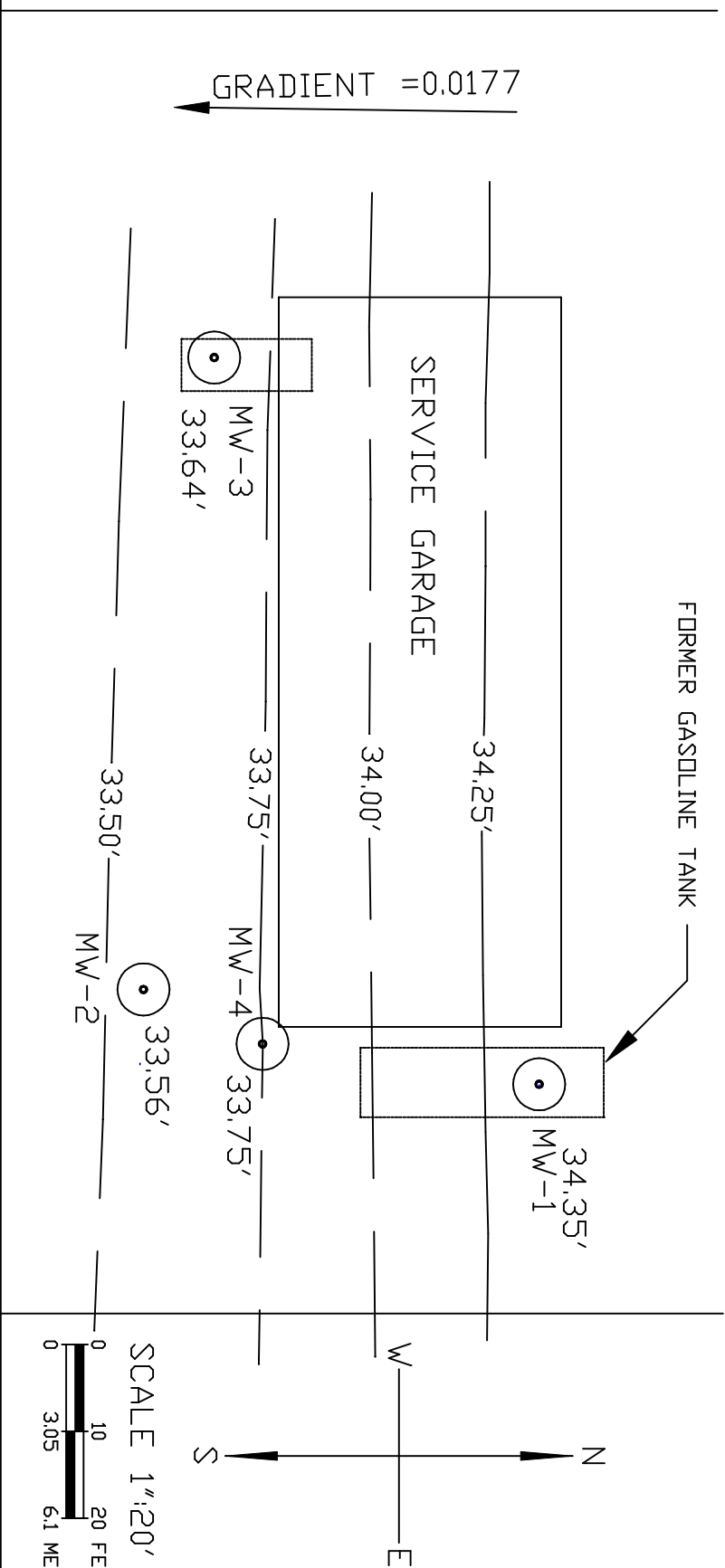
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CARLSON GARAGE
 5131 LINCOLN AVENUE
 CYPRESS, CA 90630

CONFIRMATION BORINGS

FIGURE 1

MAY 23, 2005



EXPLANATION

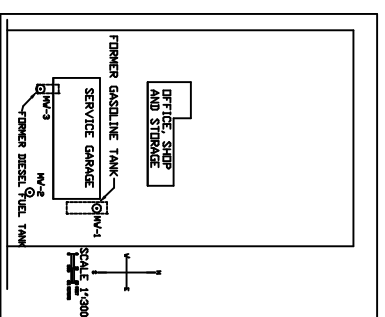
- GROUNDWATER ELEVATION CONTOUR
- WELL LOCATION
Showing Water Table Elevation

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CARLSON GARAGE
5131 LINCOLN AVENUE
CYPRESS, CA 90630

SITE PLAN
GROUNDWATER GRADIENT
FIGURE 2
SEPTEMBER 16, 2005

PLOT PLAN



Appendix A

Boring Logs

Date: 5/23/05

Drill Hole No. C-2

Sheet 1 of 1

Project: Carlson Garage

Job No.

Drilling Co. Vironex

Type of Rig: Hollow Stem Auger

Hole Diameter: 2 inches

Drive Weight: 140 lbs Drop: 30"

Elevation Top of Hole: 40.5'

Ref. or Datum

Depth Feet	Graphic Log	Sample Blows/ Foot	USCS	Odor/ OVA PPM	Description Logged By: Christopher E. Wernicke
-0					3" Asphaltic concrete
-					
-					
-					
-					
-					
-5			SP		
-			ML	Slight	@6' Brown silt, and grey sand; moist, dense
-					
-			ML	Slight	@ 8' Brown silt, very moist, soft
-					
10			SP	None	@10' Grey sand, saturated
-					
-			SM	None	@12' Gray sand and silty sand; wet stiff
-					
-			SM	None	@14' Gray, silty sand; saturated
15					
-					
-					
-					
-					
20					
-					
-					
-					
-					
25					
-					
-					
-					
-					
30					Notes: 1. Total depth: 14 feet 2. Water at 6.5 feet 3. Hydro punch to 8.5 4. Backfilled with Bentonite chips 5/23/05

Date: 5/23/05
 Project: Carlson Garage
 Drilling Co. Vironex
 Hole Diameter: 2 inches
 Elevation Top of Hole: 40.5'

Drill Hole No. C-3

Sheet 1 of 1
 Job No.
 Type of Rig: Hollow Stem Auger
 Drive Weight: 140 lbs Drop: 30"
 Ref. or Datum

Depth Feet	Graphic Log	Sample Blows/ Foot	USCS	Odor/ OVA PPM	Description Logged By: Christopher E. Wernicke
-0		-			3" Asphaltic concrete
-		-			
-		-			
-		-			
-		-			
-5		-	SP		@6' Grey, fine sand; moist, dense
-		-			
-		-	SM		@ 8' Grey silty sand; moist, dense
-		-			
10		-	ML		@10' Grey sandy silt; moist, dense
-		-			
-		-	ML		@12' Brown silt; saturated, soft
-		-			
-		-	SM		@14' Gray, silty sand; saturated, dense
15		-			
-		-			
-		-			
-		-			
20		-			
-		-			
-		-			
-		-			
25		-			
-		-			
-		-			
-		-			
30		-			Notes: 1. Total depth: 14 feet
		-			2. Water at 6.5 feet
		-			3. Backfilled with Bentonite chips 5/23/05

Date: 5/23/05
 Project: Carlson Garage
 Drilling Co. Vironex
 Hole Diameter: 2 inches
 Elevation Top of Hole: 40.5'

Drill Hole No. C-4

Sheet 1 of 1
 Job No.
 Type of Rig: Hollow Stem Auger
 Drive Weight: 140 lbs Drop: 30"
 Ref. or Datum

Depth Feet	Graphic Log	Sample Blows/ Foot	USCS	Odor/ OVA PPM	Description Logged By: Christopher E. Wernicke
-0					3" Asphaltic concrete
-					
-					
-					
-					
-5					
-			ML	None	@ 6' Brown silt; moist
-					
-			SM	Slight	@ 8' Grey silty sand; moist
-					
10			SM	None	@10' Grey sandy silt; saturated, dense
-					
-			SM	None	@12' Light brown fine sand; saturated, dense
-					
-					
15					
-					
-					
-					
-					
20					
-					
-					
-					
-					
25					
-					
-					
-					
-					
30					Notes: 1. Total depth: 14 feet 2. Water at 6.5 feet 3. Backfilled with Bentonite chips 5/23/05

Appendix B
Well Head Survey

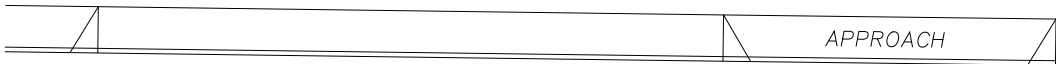


MW-1

MW-4

MW-3

MW-2

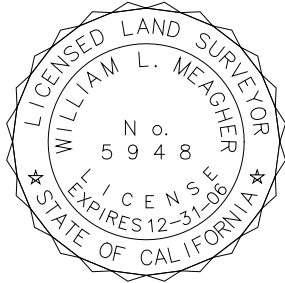


LINCOLN AVENUE

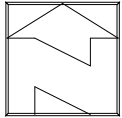
NORTHING	EASTING	LATITUDE	LONGITUDE	CASING	COVER	DESC.
2251050.06	6017163.42	33.8320030	118.0430341	39.80	40.09	MW-1
2251004.54	6017152.44	33.8318774	118.0430677	39.97	40.38	MW-2
2251012.76	6017079.70	33.8318966	118.0433077	39.85	40.31	MW-3
2251018.24	6017158.72	33.8319153	118.0430478	39.89	40.54	MW-4

SURVEY DATE: SEPTEMBER 13, 2005

SURVEY CONTROL:
HORIZONTAL DATUM: NAD 83, ZONE 6, FEET
VERTICAL DATUM: NAVD 88, FEET
BENCHMARK: COUNTY OF ORANGE 1M-19-04
ELEVATION = 39.453 FEET



WM HOLDINGS INC.
W.L. Meagher
2747 Sherwin Ave. #12
Ventura, Ca. 93003
(805) 677-4850



NORTH



MONITORING WELL SURVEY
CARLSON GARAGE
5131 LINCOLN AVENUE
CYPRESS, CALIFORNIA

SHEET 1
OF 1

DRAWING NO.
805145

Appendix C

Cumulative Soil and Groundwater Data

Table 1
Carlson Garage Cumulative Soil Data

Date	Boring	TPH-D mg/kg	TPH-G mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Xylene mg/kg	MTBE mg/kg	ETBE mg/kg	DIPE mg/kg	TAME mg/kg	TBA mg/kg
November 6, 1997	B-1@5'		ND	ND	ND	ND	ND	ND				
	B-1@10'		1,470	10	28	27	75	4.1				
	B-1@15'		ND	ND	ND	ND	ND	ND				
	B-2@9'		ND	ND	ND	ND	ND	ND				
	B-2@13'		20	0.16	0.56	0.45	1.3	0.04				
	B-2@18'		ND	ND	ND	ND	ND	ND				
	B-3@4'		ND	ND	ND	ND	ND	ND				
	B-3@9'		ND	ND	ND	ND	ND	ND				
	B-3@13'		ND	ND	ND	ND	ND	ND				
	B-4@4'		ND	ND	ND	ND	ND	ND				
	B-4@9'		ND	ND	ND	ND	ND	ND				
	B-4@14'		ND	ND	ND	ND	ND	ND				
	B-5@4'		ND	ND	ND	ND	ND	ND				
	B-5@9'		ND	ND	ND	ND	ND	ND				
	B-5@14'		ND	ND	ND	ND	ND	ND				
	B-6@4'	ND	ND	ND	ND	ND	ND	ND				
	B-6@9'	ND	ND	ND	ND	ND	ND	ND				
	B-6@14'	ND	ND	ND	ND	ND	ND	ND				
	B-7@4'	ND	ND	ND	ND	ND	ND	ND				
	B-7@9'	ND	ND	ND	ND	ND	ND	ND				
	B-7@14'	ND	ND	ND	ND	ND	ND	ND				
	B-8@4'	ND	ND	ND	ND	ND	ND	ND				
	B-8@9'	43	ND	ND	ND	ND	ND	ND				
	B-8@14'	ND	ND	ND	ND	ND	ND	ND				
	B-9@4'	ND	ND	ND	ND	ND	ND	ND				
	B-9@9'	ND	ND	ND	ND	ND	ND	ND				
	B-9@14'	ND	ND	ND	ND	ND	ND	ND				
	B-10@5'		ND	ND	ND	ND	ND	ND				
	B-10@9'		ND	0.016	ND	0.005	ND	ND				
	B-10@14'		ND	ND	ND	0.024	ND	ND				
November 10, 1999	TW-1@5'		ND	ND	ND	0.026	ND	ND				
	TW-2@8'		13,000	111	153	314	754	ND				
	TW-1a@3.5'		ND	ND	ND	0.011	ND	ND				
January 17, 2001	MW-4@10'		968	10.2	23.8	22.1	57.3	0.880	ND	ND	ND	ND
	MW-4@15'		ND	ND	ND	ND	ND	ND				
	B-11@4'		ND	ND	ND	ND	ND	ND				
	B-11@8'		1,720	15.4	30.1	42.9	68.6	ND	ND	ND	ND	ND
	B-11@13'		ND	ND	ND	ND	ND	ND				

Table 1
Carlson Garage Cumulative Soil Data

Date	Boring	TPH-D mg/kg	TPH-G mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Xylene mg/kg	MTBE mg/kg	ETBE mg/kg	DIPE mg/kg	TAME mg/kg	TBA mg/kg
December 5, 2001	B-12@4'		ND	ND	ND	ND	ND	ND				
	B-12@8'		ND	ND	ND	ND	ND	ND				
	B-12@13'		ND	ND	ND	ND	ND	ND				
	B-13@4'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-13@9'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-13@13'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-14@4'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-14@9'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-14@13'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-15@9'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
June 9, 2004	B-15@14'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-16@7'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-16@10.5'		153	0.430	1.28	1.41	3.21	ND	ND	ND	ND	ND
	B-16@13.5'		662	1.01	4.36	6.44	15.9	ND	ND	ND	ND	ND
May 23, 2005	C-1 @ 7'		102	ND	ND	ND	0.065	ND	ND	ND	ND	ND
	C-1 @ 8.5'		1,940	2.80	12.2	25.5	38.1	ND	ND	ND	ND	ND
	C-1 @ 12.5'		82	1.30	20.1	12.1	38.2	ND	ND	ND	ND	ND
May 23, 2005	C-2 @ 6'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	C-2 @ 8'		11	ND	0.053	0.239	0.187	ND	ND	ND	ND	ND
	C-2 @ 10'		4,410	ND	ND	73.5	31.0	ND	ND	ND	ND	ND
	C-2 @ 12'		2,620	5.41	34.7	40.8	100	ND	ND	ND	ND	ND
	C-2 @ 14'		ND	0.211	ND	0.008	ND	ND	ND	ND	ND	ND
May 23, 2005	C-3 @ 6'		123	ND	ND	ND	ND	ND	ND	ND	ND	ND
	C-3 @ 8'		289	ND	0.381	0.665	5.87	ND	ND	ND	ND	ND
	C-3 @ 10'		189	0.890	1.83	2.09	4.20	ND	ND	ND	ND	ND
	C-3 @ 12'		ND	0.003	0.004	ND	ND	ND	ND	ND	ND	ND
	C-3 @ 14'		90	2.83	2.37	1.10	2.36	ND	ND	ND	ND	ND
May 23, 2005	C-4 @ 6'		415	ND	ND	ND	ND	ND	ND	ND	ND	ND
	C-4 @ 8'		7,220	ND	ND	7.6	ND	ND	ND	ND	ND	ND
	C-4 @ 10'		3,860	21.1	75.4	36.7	121	ND	ND	ND	ND	ND
	C-4 @ 12'		254	3.39	5.95	2.65	7.84	ND	ND	ND	ND	ND
	C-4 @ 14'		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Carlson Garage Cumulative Well Data

2/12/2006

	Well	Depth To Water	Well Casing Elevation	Water Ele.	TPH-D µg/l	TPH-G µg/l	Benzene µg/l	Toluene µg/l	Ethyl- benzene µg/l	Xylene µg/l	MTBE µg/l	ETBE	DIPE	TAME	TBA
16-Sep-05	MW-1	5.45	39.80	34.35		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26-Jan-05	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22-Dec-05	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6-Dec-05	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26-Nov-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-Nov-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-Oct-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18-Oct-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-Oct-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Oct-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23-Sep-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15-Sep-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-Sep-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30-Aug-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23-Aug-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31-Jul-04	MW-1					ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND
23-Jul-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15-Jul-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-Jul-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29-Jun-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24-Jun-04	MW-1					ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND
16-Jun-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-Jun-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Jun-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24-May-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18-May-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-May-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-May-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-Apr-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19-Apr-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-Apr-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30-Mar-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12-Mar-04	MW-1					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14-May-03	MW-1	5.22	38.00	32.78	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31-Jan-03	MW-1	5.84	38.00	32.16	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20-Sep-02	MW-1				--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26-Apr-02	MW-1	5.84	38.00	32.16	--	--	--	--	--	--	--	--	--	--	--
17-Jan-02	MW-1	5.80	38.00	32.20	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21-Feb-01	MW-1	5.02	38.00	32.98	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13-Jul-00	MW-1	5.73	38.00	32.27	--	ND	ND	ND	ND	ND	ND				
29-Feb-00	MW-1	5.49	38.00	32.51	--	ND	ND	ND	ND	ND	ND				
10-Nov-99	MW-1	5.86	38.00	32.14	--	ND	ND	ND	ND	ND	1.5				
25-May-99	MW-1	5.42	38.00	32.58	--	ND	ND	ND	ND	ND	ND				
18-Feb-99	MW-1	5.35	38.00	32.65	--	ND	ND	ND	ND	ND	ND				
21-May-98	MW-1	4.27	38.00	33.73	ND	ND	ND	ND	ND	ND	ND				
16-Sep-05	MW-2	6.41	39.97	33.56		ND	2.2	ND	4.1	ND	ND	ND	ND	ND	ND
26-Jan-05	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22-Dec-05	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6-Dec-05	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26-Nov-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-Nov-04	MW-2					ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND
27-Oct-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18-Oct-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-Oct-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Oct-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23-Sep-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15-Sep-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-Sep-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30-Aug-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23-Aug-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-Aug-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31-Jul-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23-Jul-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15-Jul-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-Jul-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29-Jun-04	MW-2					ND	4.6	ND	ND	ND	ND	ND	ND	ND	ND
24-Jun-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16-Jun-04	MW-2					ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND
9-Jun-04	MW-2					ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND
2-Jun-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24-May-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18-May-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-May-04	MW-2					ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND

	Well	Depth To Water	Well Casing Elevation	Water Ele.	TPH-D µg/l	TPH-G µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylene µg/l	MTBE µg/l	ETBE	DIPE	TAME	TBA
3-May-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27-Apr-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19-Apr-04	MW-2					--	--	--	--	--	--	--	--	--	--
9-Apr-04	MW-2					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30-Mar-04	MW-2					70	16	0.5	ND	3.4	1.1				
12-Mar-04	MW-2					ND	7.27	ND	ND	ND	ND	ND	ND	ND	ND
14-May-03	MW-2	6.41	38.18	31.77	--	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND
31-Jan-03	MW-2	6.66	38.18	31.52	--	ND	21.2	ND	2.6	ND	ND	ND	ND	ND	ND
20-Sep-02	MW-2				--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26-Apr-02	MW-2	6.53	38.18	31.65	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17-Jan-02	MW-2	6.55	38.18	31.63	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17-Feb-01	MW-2	5.67	38.18	32.51	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13-Jul-00	MW-2	6.48	38.18	31.70	--	ND	1.7	ND	2.2	ND	1.1				
29-Feb-00	MW-2	6.28	38.18	31.90	--	66	1.2	ND	1.5	ND	ND				
10-Nov-99	MW-2	6.67	38.18	31.51	--	1,470	67.7	9.9	96.6	48	15.4				
25-May-99	MW-2	6.37	38.18	31.81	--	913	43	3.9	79.3	60	ND				
18-Feb-99	MW-2	6.31	38.18	31.87	--	666	43.5	5.3	70	47.8	5.2				
21-May-98	MW-2	5.60	38.18	32.58	780	3,040	99	18	315	290	ND				
16-Sep-05	MW-3	6.21	39.85	33.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14-May-03	MW-3	6.20	38.05	31.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31-Jan-03	MW-3	6.58	38.05	31.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20-Sep-02	MW-3				--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26-Apr-02	MW-3	6.45	38.05	31.60	--	--	--	--	--	--	--	--	--	--	--
17-Jan-02	MW-3	6.45	38.05	31.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.4
17-Feb-01	MW-3	5.59	38.05	32.46	ND	ND	ND	ND	ND	ND	6.3	ND	ND	ND	ND
13-Jul-00	MW-3	6.48	38.05	31.57	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29-Feb-00	MW-3	6.19	38.05	31.86	--	--	--	--	--	--	--				
10-Nov-99	MW-3	6.57	38.05	31.48	ND	ND	ND	ND	ND	ND	ND				
25-May-99	MW-3	6.14	38.05	31.91	ND	ND	ND	ND	ND	ND	ND				
18-Feb-99	MW-3	6.09	38.05	31.96	--	ND	ND	ND	ND	ND	ND				
21-May-98	MW-3	5.01	38.05	33.04	ND	ND	ND	ND	ND	ND	2.1				
16-Sep-05	MW-4	6.14	39.89	33.75		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26-Jan-05	MW-4					ND	24.2	ND	ND	ND	ND	ND	ND	ND	ND
22-Dec-05	MW-4	4:00 PM				180	1.4	ND	ND	ND	ND	ND	ND	ND	ND
22-Dec-05	MW-4	12:30 PM				87.9	12.5	4.3	ND	6.9	ND	ND	ND	ND	ND
6-Dec-05	MW-4					ND	1.5	ND	ND	3.5	ND	ND	ND	ND	ND
26-Nov-04	MW-4					377	12.5	1.4	1.3	26.4	ND	ND	ND	ND	ND
8-Nov-04	MW-4					ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND
27-Oct-04	MW-4					ND	4	1.1	ND	ND	ND	ND	ND	ND	ND
18-Oct-04	MW-4					62.4	4.3	1.5	ND	3.6	ND	ND	ND	ND	ND
9-Oct-04	MW-4					ND	1	ND	ND	ND	ND	ND	ND	ND	ND
1-Oct-04	MW-4	8:32 AM				ND	10.3	1.4	ND	ND	ND	ND	ND	ND	ND
1-Oct-04	MW-4	6:59 AM				ND	5.9	ND	ND	ND	ND	ND	ND	ND	ND
23-Sep-04	MW-4					72	8.3	2.3	1.4	10.1	ND	ND	ND	ND	ND
15-Sep-04	MW-4					78.4	23.8	1.8	2.9	3.6	ND	ND	ND	ND	ND
9-Sep-04	MW-4					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30-Aug-04	MW-4					65	8.3	2.4	2.2	9.6	ND	ND	ND	ND	ND
23-Aug-04	MW-4					ND	5.8	ND	1.7	1.3	ND	ND	ND	ND	ND
9-Aug-04	MW-4					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31-Jul-04	MW-4					60.9	8.9	1	ND	4.2	ND	ND	ND	ND	ND
23-Jul-04	MW-4					ND	5.4	ND	1.1	3	ND	ND	ND	ND	ND
15-Jul-04	MW-4					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-Jul-04	MW-4	1:20 PM				77.8	8	2.5	8.2	5.9	ND	ND	ND	ND	ND
8-Jul-04	MW-4	11:44 AM				ND	2.5	ND	ND	2.2	ND	ND	ND	ND	ND
29-Jun-04	MW-4					ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND
24-Jun-04	MW-4					193	90.3	15	ND	65.8	3.2	ND	ND	ND	ND
16-Jun-04	MW-4					451	9.8	5.6	21.8	11.6	ND	ND	ND	ND	ND
9-Jun-04	MW-4					ND	18	4.1	ND	17.6	ND	ND	ND	ND	ND
2-Jun-04	MW-4					217	78.5	16.2	8.2	11.2	ND	ND	ND	ND	ND
24-May-04	MW-4					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18-May-04	MW-4					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10-May-04	MW-4					350	11.8	ND	ND	313	ND	ND	ND	ND	ND
3-May-04	MW-4					ND	1.3	ND	ND	7.6	ND	ND	ND	ND	ND
27-Apr-04	MW-4					48	ND	ND	ND	3.6	ND	ND	ND	ND	ND
19-Apr-04	MW-4					665	11.4	4.4	1.4	200	ND	ND	ND	ND	ND
9-Apr-04	MW-4					49	2.8	ND	ND	4.3	ND	ND	ND	ND	ND
19-Mar-04	MW-4					48	4.8	1.3	0.9	0.47	ND				
12-Mar-04	MW-4					165	2.23	ND	2.5	4.32	ND	ND	ND	ND	ND
14-May-03	MW-4	6.00	38.14	32.14	--	770	ND	ND	2.5	12.9	ND	ND	ND	ND	ND
31-Jan-03	MW-4	6.63	38.14	31.51	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20-Sep-02	MW-4				--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26-Apr-02	MW-4	6.42	38.14	31.72	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21-Jan-02	MW-4	WELL SURFACE WATER THE NEXT DAY				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Carlson Garage Cumulative Well Data

2/12/2006

	Well	Depth To Water	Well Casing Elevation	Water Ele.	TPH-D µg/l	TPH-G µg/l	Benzene µg/l	Toluene µg/l	Ethyl- benzene µg/l	Xylene µg/l	MTBE µg/l	ETBE	DIPE	TAME	TBA
20-Jan-02	MW-4	WELL SURFACE WATER AFTER RECHARGE				ND	2.7	ND	ND	2.1	ND	ND	ND	ND	11
20-Jan-02	MW-4	WELL SURFACE WATER AT END OF TEST				95	23.5	2.3	5.5	12.3	ND	ND	ND	ND	ND
20-Jan-02	MW-4	PUMP TEST DISCHARGE WATER FROM				ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND
17-Jan-02	MW-4	6.34	38.14	31.80	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.5
17-Feb-01	MW-4	5.55	38.14	32.59	--	1,020	31	27	18.4	210	ND	ND	ND	ND	ND
10-Nov-99	TEMP					20,700	596	681	1,780	2,670	32.2				
10-Nov-99	TEMP					16,600	559	422	1,600	1,980	13.3				
9-Jun-04	C-1					48,800	5,050	6,750	1,680	5,870	ND	ND	ND	ND	ND
23-May-05	C-2					26,900	13.5	6.0	39.2	20.0	ND	ND	ND	ND	ND
23-May-05	C-3					5,230	43.5	39.5	35.2	263	ND	ND	ND	ND	ND
23-May-05	C-4					16,100	79.5	220	515	685	ND	ND	ND	ND	ND

Appendix D
Well Gauging Log

Geological and Environmental Consulting

15027 Lashburn Street, Whittier, CA 90604
(562) 903-9123 CSL #734057 A-Haz, C-57

Well Gauging Log

Project Name & Address:

Date 9-16-05

Field Crew C. Wernicke

[illegible]

Appendix E

Laboratory Reports and Chain of Custody Documents



Southland Technical Services, Inc.
Environmental Laboratories

06-03-2005

Mr. Chris Wernicke, R.G.
Earth Safe
15027 Lashburn Street
Whittier, CA 90604

Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Sample Date: 05-23-2005
Lab Job No.: AH505157

Dear Mr. Wernicke:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 05-23-2005 and analyzed by the following methods:

EPA 8015M (Gasoline)
EPA 8260B (BTEX & Oxygenates by GC/MS)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph.D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Southland Technical Services, Inc.
Environmental Laboratories

06-03-2005

Client: Earth Safe
Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Matrix: Soil
Batch No.: CME23-GS1

Lab Job No.: AH505157
Date Sampled: 05-23-2005
Date Received: 05-23-2005
Date Analyzed: 05-23-2005

EPA Method 8015M (Gasoline)

Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	C4-C12 (Gasoline)	Reporting Limits
Method Detection Limit		ND	0.5
Method Blank		ND	0.5
C-2@6'	AH505157-1	ND	0.5
C-2@8'	AH505157-2	11.0	0.5
C-2@10'	AH505157-3	4,410	0.5
C-2@12'	AH505157-4	2,620	0.5
C-2@14'	AH505157-5	ND	0.5
C-3@6'	AH505157-6	123	0.5
C-3@8'	AH505157-7	289	0.5
C-3@10'	AH505157-8	189	0.5
C-3@12'	AH505157-9	ND	0.5
C-3@14'	AH505157-10	90.2	0.5
C-4@6'	AH505157-11	415	0.5
C-4@8'	AH505157-12	7,220	0.5
C-4@10'	AH505157-13	3,860	0.5
C-4@12'	AH505157-14	254	0.5
C-4@14'	AH505157-15	ND	0.5

ND: Not Detected (at the specified limit).



Southland Technical Services, Inc.
Environmental Laboratories

06-03-2005

Client: Earth Safe
Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Matrix: Water
Batch No.: AME26-GW1

Lab Job No.: AH505157
Date Sampled: 05-23-2005
Date Received: 05-23-2005
Date Analyzed: 05-26-2005

EPA Method 8015M (Gasoline)
Reporting Units: µg/L (ppb)

Sample ID	Lab ID	C4-C12 (Gasoline)	Reporting Limits
Method Detection Limit		ND	50
Method Blank		ND	50
C-2 Water	AH505157-16	26.900	50
C-3 Water	AH505157-17	5.230	50
C-4 Water	AH505157-18	16.100	50

ND: Not Detected (at the specified limit).

06-03-2005

Client: Earth Safe
Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Matrix: Soil
Batch No.: 0523-VOCS

Lab Job No.: AH505157

Date Sampled: 05-23-2005

Date Received: 05-23-2005

Date Analyzed: 05-23-2005

EPA 8260B (BTEX & Oxygenates by GC/MS)

Reporting Units: mg/kg (ppm)[illegible][illegible]

MDL=Method Detection Limit, DF=Dilution Factor (**DF × MDL = Reporting Limit** for the sample),

3rdq4q5q6q7q8q9q10q11q12q13q14q15q16q17q18q19q20q21q22q23q24q25q26q27q28q29q30q31q32q33q34q35q36q37q38q39q40q41q42q43q44q45q46q47q48q49q50q51q52q53q54q55q56q57q58q59q60q61q62q63q64q65q66q67q68q69q70q71q72q73q74q75q76q77q78q79q80q81q82q83q84q85q86q87q88q89q90q91q92q93q94q95q96q97q98q99ND=Not Detected (at the specified limit), * Obtained from a higher



Southland Technical Services, Inc.
Environmental Laboratories

dilution analysis.



Southland Technical Services, Inc.
Environmental Laboratories

06-03-2005

Client: Earth Safe
Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Matrix: Soil
Batch No.: 0523-VOCS

Lab Job No.: AH505157
Date Sampled: 05-23-2005
Date Received: 05-23-2005
Date Analyzed: 05-23-2005

EPA 8260B (BTEX & Oxygenates by GC/MS)
Reporting Units: mg/kg (ppm)

Lab ID	Method Blank	AH505157-13	AH505157-14	AH505157-15				MDL
Sample ID		C-4 @10'	C-4 @12'	C-4 @14'				
DF	1	1.000	250	1				
Benzene	ND	21.1	3.39	ND				0.002
Toluene	ND	75.4	5.95	ND				0.002
Ethylbenzene	ND	36.7	2.65	ND				0.002
Total Xylenes	ND	121	7.84	ND				0.004
MTBE	ND	ND	ND	ND				0.005
ETBE	ND	ND	ND	ND				0.005
DIPE	ND	ND	ND	ND				0.005
TAME	ND	ND	ND	ND				0.005
TBA	ND	ND	ND	ND				0.020

MDL=Method Detection Limit. DF=Dilution Factor (**DF × MDL = Reporting Limit** for the sample).
ND=Not Detected (at the specified limit), * Obtained from a higher dilution analysis.



Southland Technical Services, Inc.
Environmental Laboratories

06-03-2005

Client: Earth Safe
Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Matrix: Water
Batch No.: 0526-VOAW

Lab Job No.: AH505157
Date Sampled: 05-23-2005
Date Received: 05-23-2005
Date Analyzed: 05-26-2005

EPA 8260B (BTEX & Oxygenates by GC/MS)

Reporting Units: µg/L (ppb)

Lab ID	Method Blank	AH505157-16	AH505157-17	AH505157-18				MDL
Sample ID		C-2 Water	C-3 Water	C-4 Water				
DF	1	5	5	2.5				
Benzene	ND	13.5	43.5	79.5				1
Toluene	ND	6.0	39.5	220				1
Ethylbenzene	ND	39.2	35.2	515				1
Total Xylenes	ND	20.0	263	685				2
MTBE	ND	ND	ND	ND				2
ETBE	ND	ND	ND	ND				2
DIPE	ND	ND	ND	ND				2
TAME	ND	ND	ND	ND				2
TBA	ND	ND	ND	ND				10

MDL=Method Detection Limit. DF=Dilution Factor (**DF × MDL = Reporting Limit** for the sample).
ND=Not Detected (at the specified limit).



06-03-2005

EPA 8260B
Batch QA/QC Report

Client: Earth Safe
Project: Carlson Garage
Matrix: Water
Batch No: 0526-VOAW

Lab Job No.: AH505157
Lab Sample ID: R505176-1
Date Analyzed: 05-26-2005

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20.0	14.3	18.0	71.5	90.0	22.9	30	70-130
Benzene	ND	20.0	17.3	21.5	86.5	107.5	21.6	30	70-130
Trichloro-ethene	ND	20.0	15.2	24.0	76.0	120.0	44.9	30	70-130
Toluene	ND	20.0	22.7	23.8	113.5	119.0	4.7	30	70-130
Chlorobenzene	ND	20.0	18.0	21.1	90.0	105.5	15.9	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	48.9	50.0	97.8	80-120
Benzene	52.7	50.0	105.4	80-120
Trichloro-ethene	46.9	50.0	93.8	80-120
Toluene	46.8	50.0	93.6	80-120
Chlorobenzene	51.2	50.0	102.4	80-120

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

06-03-2005

**EPA 8015M (TPH)
Batch QA/QC Report**

Client: Earth Safe
Project: Carlson Garage
Matrix: Water
Batch No: AME26-GW1

Lab Job No.: AH505157
Sampled ID: R505176-1
Date Analyzed: 05-26-2005

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	1,000	1,060	949	106.0	94.9	11.1	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-g	875	1,000	87.5	80-120

ND: Not Detected (at the specified limit).



Southland Technical Services, Inc.
Environmental Laboratories

06-03-2005

**EPA 8015M (TPH)
Batch QA/QC Report**

Client: Earth Safe
Project: Carlson Garage
Matrix: Soil
Batch No: CME23-GS1

Lab Job No.: AH505157
Sampled ID: SS0523-1
Date Analyzed: 05-23-2005

**I. MS/MSD Report
Unit: ppb**

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	5,000	993	954	19.9	19.1	4.1	30	70-130

**II. LCS Result
Unit: ppb**

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-g	1.010	1.000	101.0	80-120



Southland Technical Services, Inc.
Environmental Laboratories

06-03-2005

EPA 8260B
Batch QA/QC Report

Client: Earth Safe
Project: Carlson Garage
Matrix: Soil
Batch No: 0523-VOCS

Lab Job No.: AH505157
Lab Sample ID: SS0523-1
Date Analyzed: 05-23-2005

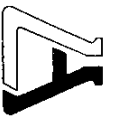
I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20.0	22.7	16.4	113.5	82.0	32.2	30	70-130
Benzene	ND	20.0	24.1	18.3	120.5	91.5	27.4	30	70-130
Trichloro-ethene	ND	20.0	25.3	20.3	126.5	101.5	21.9	30	70-130
Toluene	ND	20.0	24.4	21.0	122.0	105.0	15.0	30	70-130
Chlorobenzene	ND	20.0	20.3	14.2	101.5	71.0	35.4	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	18.5	20.0	92.5	80-120
Benzene	20.9	20.0	104.5	80-120
Trichloro-ethene	22.9	20.0	114.5	80-120
Toluene	20.0	20.0	100.0	80-120
Chlorobenzene	23.5	20.0	117.5	80-120

ND: Not Detected (at the specified limit)



ASSOCIATED LABORATORIES

806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

CHAIN OF CUSTODY RECORD
Date 5-23-05 Page 2 of 2

CLIENT Earthquake

ADDRESS _____

PROJECT MANAGER Cheryl DeMickler

PHONE NUMBER 949 913-9123

PROJECT NAME Carbon bearing

SAMPLES: (Signature) Cheryl DeMickler

Samples Intact Yes ☒ No ☐
County Seals Intact Yes ☒ No ☐
Sample Ambient ☐ Cooled ☒ Frozen ☐
Same Day ☒ 24 Hr. ☐
Regular ☒ 48 Hr. ☐

SAMPLE NUMBER LOCATION DESCRIPTION

DATE TIME SAMPLE TYPE WATER AIR SOLID NO OF CNTNRS

SUSP. CONTAM.

TESTS REQUIRED

AH505157-9 C-3 @ 12' 5-23-05 10:00 X 1 1 4815 C-3 @ 12' C, 5/24/05
b1688-05-05-05-05

-10 C-3 @ 14' 10:00 X 1 1

-11 C-4 @ 6' 10:15 X 1 1

-12 C-4 @ 8' 10:20 X 1 1

-18 C-4 Water 10:40 X 2

-13 C-4 @ 10' 10:44 X 1 1

-14 C-4 @ 12' 10:50 X 1 1

-15 C-4 @ 14' 11:00 X 1 1

Relinquished by: (Signature) Cheryl DeMickler Received by: (Signature) Steve / SIS Date/Time 5-23-05 13:30

Relinquished by: (Signature) _____ Received by Laboratory for analysis: (Signature) _____ Date/Time _____

Special Instructions: _____

I hereby authorize the performance of the above indicated work.

DISTRIBUTION: White with report, Yellow to AL, Pink to Courier



Southland Technical Services, Inc.
Environmental Laboratories

09-22-2005

Mr. Chris Wernicke, R.G.
Earth Safe
15027 Lashburn Street
Whittier, CA 90604

Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Sample Date: 09-16-2005
Lab Job No.: AH509106

Dear Mr. Wernicke:

Enclosed please find the analytical report for the samples received by STS Environmental Laboratories on 09-16-2005 and analyzed by the following EPA methods or parameters:

EPA 8015M (Gasoline)
EPA 8260B (BTEX & Oxygenates)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by the CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our Laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph.D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Southland Technical Services, Inc.
Environmental Laboratories

09-22-2005

Client: Earth Safe
Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Matrix: Water
Batch No.: CM119-GW1

Lab Job No.: AH509106
Date Sampled: 09-16-2005
Date Received: 09-16-2005
Date Analyzed: 09-19-2005

EPA 8015M (Gasoline)
Reporting Unit: µg/L (ppb)

Sample ID	Lab ID	Gasoline(C4-C12)	Reporting Limit
Method Blank		ND	50
MW-1	AH509106-1	ND	50
MW-2	AH509106-2	ND	50
MW-3	AH509106-3	ND	50
MW-4	AH509106-4	ND	50

ND: Not Detected (at the specified limit).



Southland Technical Services, Inc.
Environmental Laboratories

09-22-2005

Client: Earth Safe
Project: Carlson Garage
Project Site: 5131 Lincoln Ave., Cypress, CA
Matrix: Water
Batch No.: 0919-VOCW1

Lab Job No.: AH509106
Date Sampled: 09-16-2005
Date Received: 09-16-2005
Date Analyzed: 09-19-2005

EPA 8260B (BTEX & Oxygenates by GC/MS)
Reporting Units: µg/L (ppb)

Lab ID	MB	AH509106-1	AH509106-2	AH509106-3	AH509106-4		MDL
Sample ID		MW-1	MW-2	MW-3	MW-4		
DF	1	1	1	1	1		
Benzene	ND	ND	2.2	ND	ND		1
Toluene	ND	ND	ND	ND	ND		1
Ethylbenzene	ND	ND	4.1	ND	ND		1
Total Xylenes	ND	ND	ND	ND	ND		2
MTBE	ND	ND	ND	ND	ND		2
ETBE	ND	ND	ND	ND	ND		2
DIPE	ND	ND	ND	ND	ND		2
TAME	ND	ND	ND	ND	ND		2
t-Butyl Alcohol	ND	ND	ND	ND	ND		10

MDL: Method Detection Limit

DF: Dilution Factor ($DF \times MDL = \text{Reporting Limit for the sample}$).

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

09-22-2005

**EPA 8015M(TPH)
Batch QA/QC Report**

Client: Earth Safe
Project: Carlson Garage
Matrix: Water
Batch No: CMI19-GW1

Lab Job No.: AH509106

Lab Sample ID: A1509101-1

Date Analyzed: 09-19-2005

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	1,000	837	961	83.7	96.1	13.8	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
TPH-G	891	1,000	89.1	80-120

ND: Not Detected.



Southland Technical Services, Inc.
Environmental Laboratories

09-22-2005

EPA 8260B
Batch QA/QC Report

Client: Earth Safe
Project: Carlson Garage
Matrix: Water
Batch No: 0919-VOCW1

Lab Job No.: AH509106
Lab Sample ID: A1509101-1
Date Analyzed: 09-19-2005

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	17.8	20.1	89.0	100.5	12.1	30	70-130
Benzene	ND	20	20.6	22.5	103.0	112.5	8.8	30	70-130
Trichloro-ethene	ND	20	19.5	21.2	97.5	106.0	8.4	30	70-130
Toluene	ND	20	19.6	22.2	98.0	111.0	12.4	30	70-130
Chlorobenzene	ND	20	21.4	23.2	107.0	116.0	8.1	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	18.2	20	91.0	80-120
Benzene	20.1	20	100.5	80-120
Trichloro-ethene	18.7	20	93.5	80-120
Toluene	19.6	20	98.0	80-120
Chlorobenzene	18.8	20	94.0	80-120

ND: Not Detected.